

Status of the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1-17 (Cancelled)

18. (new) A system, comprising:

- a first lens group consisting of three lenses;
- a second lens group having at least one lens;
- a third lens group consisting of a single lens;
- an aperture stop positioned between the first and second lens groups; and
- a fold mirror positioned between the second and third lens groups.

19. (new) The system of claim 18, wherein the second lens group consists of two lenses.

20. (new) The system of claim 18, wherein the second lens group consists of three lenses.

21. (new) The system of claim 18, wherein one of the three lenses in the first lens group is a meniscus lens.

22. (new) The system of claim 18, wherein two of the three lenses in the first lens group are biconvex lenses.

23. (new) The system of claim 22, wherein one of the two biconvex lenses has an aspherical surface.

24. (new) The system of claim 18, wherein the at least one lens in the second lens group has at least one aspherical surface.

25. (new) The system of claim 18, wherein the at least one lens in the second lens group has at least one convex surface.

26. (new) The system of claim 18, wherein the single lens in the third lens group comprises two spherical surfaces.

27. (new) The system of claim 18, wherein:

the first lens groups forms a front part of a lens relay;

the second lens group forms an intermediate part of the lens relay; and

the third lens group forms a field part of the lens relay.

28. (new) The system of claim 18, further comprising:

a light source positioned before the first, second, and third lens groups;

and

a pattern generator positioned after the third lens group.